Editorial

Greetings OOPs,

I hope that you all did have a pleasant and peaceful festive season. The one thing that we miss is the absence of the threepences and sixpences that used to be found in the Christmas puddings. The advent of decimal currency with the new coin material put an end to that, sorry to say. You young OOPs, ask your Mum and Dad about that.

My Christmas Gathering grew to a Mini-Expo , as I advertised it in the Brisbane Courier Mail. The invitation was for OOPs and any interested folk to attend. The day was a great success so a report is on page 10. If any OOP held a similar get-together, no matter how small, please send in a little write-up about it.

Some of us think that we should hold more frequent gatherings or workshops. Mr. Bob Kitch is willing to help or fully conduct such meetings. This I am willing to assist folk with, but I do not have the time to impliment myself. What do YOU think??? Please let me know. Bob suggests in a month or so time.

A little bad news for all is that I am increasing the price of LE'VZ 200/300 OOP to A$2.00. per copy from issue #16. $1.00. has been the price from the first issue nearly two years ago. The last few issues(#8 to #14) I have been subsidising by about $50.00 per print run. This I cannot continue to do. Of course most of you would realise that I spend a lot of time printing LE'VZ, but that I am only too happy to do. Bringing news, help and so on to OOPs is very gratifying.

This will commence with #16, about June 1987. OOPs who have credit between $1.00. and $2.00. at that time will still receive #16 LE'VZ.

The good news is that future LE'VZs will contain more pages, and now that I can print in compressed mode, there will be more information contained therein.

I have had few comments on the new format of #14, but I guess "no news is good news". On page 9 are the new instructions/suggestions for contributers and OOPs. Also would those OOPs who have not previously filled out a DATA FORM please do so. It is on page 12.

From LE'VZ #16 this newsletter will be referred as a magazine, —- LE'VZ magazine —-. It will be the best in the southern hemisphere with YOUR help.

I am sorry to say that most of the present personal computer magazines are no longer aimed at the "personal computer" market, rather the big dollar "business" market.

GOD BLESS to all, and may your EASTER be a joyious time. John and Marie D'Alton.

This contribution by Mr.A Seeger of MONBULK.

The other commands are <ERA> to erase a file, data or programme. <DIR> is to view/print the directory of files on the disc. <REN> is to rename a file. <DCOPY> to copy a disc to another disc. Before a disc is to be used, it must be initilised <INIT>.

Commands for data programming are:-

<OPEN> to open a file, <CLOSE> to close a file, <IN#> to read a file, <PR#> to write to the file.

Finally, if two disc drives are in use, the drive must be selected as <DRIVE1> or <DRIVE2>. (ED.)

Dear VZ-USERS,I recently aquired a disk drive system for my VZ-300, and due to a conversation with Scott Le Brun not long ago he asked me to write about 3 disk commands in particular, these commands are-:BSAVE, BLOAD and BRUN. Let us have a look at these commands one by one.

BSAVE-:This command allows you to save any part of memory that you want, but first you must know the hexadecimal start and end addresses of where you want to save.

Eg-:BSAVE"FILENAME",xxxx,xxxx

This will save the entire locations of from xxxx to xxxx.This command is particulary useful for saving VZ screens, yes you heard right,I did not even know of this until about 3 weeks after I got my disk drive.

To save a screen to disk is very easy but there is a bit of work beforehand.First you have to write your program (unless you already have a program written) to draw the screen and the last instruction should be BSAVE"FILENAME",xxxx,xxxx

The hexadecimal addresses for saving the VZ screens are:7000 hex (28672 dec) and 71FF hex (29183 dec) for mode(0) (text mode) and 7000 hex (28672 dec) and 77FF hex (30719 dec) for mode(1) (graphics mode).I recently got hold of a copy of the program LEARJET and I found that it took too long to start because of the long intro, you guessed it, I saved the screen and now instead of taking 15 to 20 seconds to run the intro it now takes just under 4 seconds WOW!.

BLOAD-:

Eg-:BLOAD"FILENAME"

You do not need the hex addresses for this command.This will load any binary program from disk, if it is a program like the WORD PROCESSOR it will not work because it needs to run instantly, if you type RUN after you load it your VZ will lock up because it needs to have a starting address.If you are loading a screen its as easy as typing BLOAD"FILENAME", of course if it is a hi-res screen you will need to type in the hi-res command before you load the screen.Eg-:

10 MODE(1):BLOAD"FILENAME":FORX=1TO5000:NEXT ,and you will have your screen in about 3 to 5 seconds.

BRUN-:

Eg-:BRUN"FILENAME"

This command will instantly run any binary program from disk.If you try and run a screen loading the VZ will lock up because it will be looking for a machine language (assembly) program in memory which of course wont be there.You will have no worries running a program like the WORD PROCESSOR or any other M/1 program with this command.

Well that just about raps it up, if you have any queries please do not hesitate to write to me.My address is-:

Andrew Seeger
C/-Monbulk P.O.
Monbulk,Vic,3793

"I hope this plane doesn't travel faster than sound", said the old lady to the stewardess.

"Why?"

"Because my friend and I want to talk, that's why."

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****************************************
BUSINESS                      PROGRAMS
****************************************
Le-VZ Statement          VSW
Cheque Ledger            VSW
Cash Book Ledger         VSW
Le-VZ D'base             VSW
Database VZ              VSW
Search Tape              VSW

Metic Conversion         LYS
Racing Selector          LYS
Check Record             LYS
Master Finance           LYS
Speed & Accuracy         LYS
Lemonade Stand           LYS
Study Aid                LYS
Card File                LYS
Decision Evalulator      LYS

Mailing List             DSE
Portfolio Management     DSE
Discounted Cashflow      DSE
Financial Cashflow       DSE
Word Processor           DSE
Matrix                   DSE
Data Base                DSE
Word Processor           DAW
Data Master              DAW
Address Book             DAW
****************************************
Super Word Processor     BRO
****************************************
UTILITY                  PROGRAMS
****************************************
VZ Extended Basic        VSW
Protect                  VSW
Cmerge/Delete/Renum      VSW
Monitor / Debugger       VSW
Extended Basic           VSW
Array / Restore          VSW
File Search              VSW
Copy / Protect           VSW
Disc Guard               VSW
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Editor Assembler         COS
Colour Graphics          DAW
Weaving Drafts           VSW
Utilitys                 VSW
Disassembler             VSW
Disk Copy                VSW
VZerson Print Patch      VSW
Load XX80 Files          VSW
Search Tape              VSW
Colour Graphics          PAM

VZ - Mon 80              LYS

Hackers Delight          CEL
Screen Drawer            CEL
Program Copier           CEL
****************************************
Sprit Generator          DSE
Editor Assembler         DSE
Disassembler             DSE
Hex Utilities            DSE
Introduction to Basic    DSE
Renumber Merge           WOB
Monitor Debugger         WOB
VZ. Extra Commands       LEH
Word Processor           DAW
Program Copier           SAR
Graphics Pack            MIL
VZ Debug Graphics        MIL
Retrieval Program        BRO
Copier                   SUN
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COS   Cosmic
DAW   L Dawson
HIR   John Hirst
McC   G Mcleary
MIL   R S Miller
LOW   B Low
CAR   Adam Carter
RHO   Chris Rhodes
PAM   Pam Software
TAI   Lee Tait
SAR   N Sarafoudis
LEH   G Lehman
WOB   W Obrist
BJE   S Bjelic
APE   APE Software Co
SOR   J L Sortland
SUN   E Sundstrup
BRO   G Browell
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DSE   Dick Smith Electronics
LYS   Lysco
VSW   Vsoftwarez
CEL   Celestron
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Total Software Advertised as at DECEMBER 1986
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Some Software companies and writers have now closed or are distributing under other names.

J. D'alton is also VSOFTWAREZ

LYSCO [Leon Young Software] to stop selling VZ software as of 31 July 1986 , But as yet no word of who will take over sales and distribution

N. Sarafoudis also CELESTRON

COSMIC acquired by DSE

R.S. Miller closed down

This list is as complete as current information shows.

To prevent this software being lost to the future groups of VZ/ers, it would be an advantage to have a central library to hold a copy of these programs so that once the marketplace leaves the Distributor the Central Library would then be able to provide future clients with programs without contravening Copyright.

I have been forced to try and improve the supply and delivery of software orders as along with a number of other users the SERVICE from suppliers has been rather lax. I would like to hear from any person who has either new or old software that is not listed here ,And also from anyone who has copies of the lesser known programs.

I am prepared to act as a central distribution point for any software from the current suppliers ,on the same terms as they advertise .

Any new products will only help to expand the usefulness of the VZ computer and any advice must contain Name and Address of Writer or Distributor so this catalogue can be updated

Any update or correction to the above listings Please forward to :-
Eddie Tomes
3 Kilkenny St. Capalaba Qld.
4157
Telephone 07- 3902797
Compiled in July 1986 and updated December 1986

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*************************
   COMMERCIAL SOFTWARE
    for the DSE VZ200-300
COLOUR . C O M P U T E R
*************************
PROGRAM            DISTRIBUTOR
NAME
*************************
    EDUCATIONAL PROGRAMS
*************************
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Program	Distributor
Speed & Accuracy	LYS
Study Aid	LYS
Maths Pack	McC
Code Maker/Break	McC
Number Challenge	McC
Word Challenge	McC
Radio Man Pack	HIR
Parent Teacher Pack	HIR
Statistics I	DSE
Statistics II	DSE
Speed Reading	DSE
Typing Teacher	DSE
Music Writer	DSE
Spellomatic 1 & 2	DSE
Spellomatic 3 & 4	DSE
Flashcard 1 & 2	DSE
Flashcard 3 & 4	DSE
Metric Spycatcher	DSE
Whizkid Spycatch	DSE
Maths Armada	DSE
Elementary Geometry	DSE
Keyboard	VSW
Wordmatching	VSW
Meatpies	VSW
Maths Countdown	VSW
Coordinates	VSW
Tower Of Hanoi	VSW
Microscope	VSW
Block Puzzler	VSW
Meatpies VZ	VSW
Plus And Minus	VSW
Maths	VSW
Queensland	VSW
European Capitals	VSW
Camping	VSW
Edudisk	VSW
Morse Code	MIL

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    GAMES   PROGRAMS
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Program	Distributor
Morgoth	COS
Boskone Alert	COS
Rally Racer	COS
Defence Penetrator	COS
Super Invaders	MIL
Pak Man	MIL
Biorythm	MIL
Snake Maze	LOW
Ten Pin bowling	McC
Graphic Golf	McC
Enchanted Princess	McC
Gamblers Pack	McC
Hi Jinks	McC
Star Pilot	DSE
Skiing	DSE
Target	DSE
Golf	DSE
Hansman	RHD
Flight Deck	VSW
Learjet	VSW
VZ Monopoly	VSW
Flying Saucer	VSW
Haunted Mansion	VSW
Mansion / Nova	VSW
Scotland Yard	VSW
Blackjack	VSW
Poker Machine	VSW
Word Squares	VSW
Computer Monopoly	VSW
Trivial Cult	VSW
Scotland Yard 2	VSW
Air Traffic Controller	VSW
Ghoulbusters	CEL
Royal Poker	CEL
Thermonuclear War	CEL
Galactic Fighter	CEL
Lunar Landers 2020	CEL
Cataclysm Catapillar	CEL
Jailhouse Breakout	CEL
3-D Merciless Maze	CEL
Minotaur Periless	CEL
Battle Galaxy 7	CEL
Airlocks Maze	CEL
Reactor Destruction	CEL
Titanium Triology	CEL
Conan The Barbarian	CEL
Battle Of Vietnam	CEL
Two Up	LYS
Russian Roulette	LYS
Beat The Bus	LYS
Mousetrap	LYS
Alien Escape	LYS
Cub Scout	LYS
Asteroid Field	LYS
Little Packer	LYS
Caverns of Venus	LYS
Goldmine Adventure	LYS
VZ Startrek	LYS
The Enchanted Princess	LYS
Ten Pin Bowling	LYS
Graphic Golf	LYS
The Lost Sword	LYS
Castle	LYS
Haunted House	LYS
UFO's	LYS
Pharaoh's Tomb	LYS
Land of Scrod	LYS
Adventure Island	LYS
Convoy	LYS
Alien Rain	LYS
Yahtzee	LYS
Triffids : 2040 AD	LYS
Melbourne Cup	LYS
Pyramid Adventure	LYS
VZ Star Trek II	LYS
City blitz	LYS
Slot Machine	LYS
Matchbox	DSE
Poker	DSE
Hansman	DSE
Slot Machine/Roulette	DSE
Blackjack	DSE
Circus	DSE
Biorythm	DSE
Invaders	DSE
Dynasty Derby	DSE
Learjet	DSE
Ghost Hunter	DSE
Hoppy	DSE
Super Snake	DSE
Knights & Dragons	DSE
Defence Penetrator	DSE
Star Blaster	DSE
Asteroids	DSE
Air Traffic Controller	DSE
Tennis	DSE
Checkers	DSE
Ladder Challenge	DSE
VZ - Panic	DSE
Planet Patrol	DSE
Othello	DSE
Draculas Castle	DSE
Backgammon	DSE
Attack Killer Tomato	DSE
Chess	DSE
Duel	DSE
Formula One	DSE
Kamakazi	DSE
Missile Attack	DSE
Disout	DSE
Hamburger Sam	DSE
Lunar Lander [Laser]	DSE
Lunar Lander [VZ300]	DSE
Galaxon	DSE
Dawn Patrol	DSE
Tennis Golf lesson	DSE
Horse Rabbit Racing	DSE
Crash	DSE
Penguin	DSE
Shoot 4am	DSE
Poker	BJE
Circus	BJE
Invaders	BJE
Ghost Hunter	BJE
Hoppy	BJE
Super Snake	BJE
Knights & Dragons	BJE
Defence Penetrator	BJE
Star Blaster	BJE
Asteroids	BJE
Panic	BJE
Planet Patrol	BJE
Ladder Challenge	BJE
Learjet	BJE
Air Traffic Controller	BJE
Rally X	BJE
Checkers	BJE
Hansman	BJE
Blackjack	BJE
Golf Lesson	BJE
Tennis	BJE
Galazian Adventure	BJE
Snake	TAI
Snake Trap	TAI
Phantom Driver	TAI
Word Teaser	TAI
Ghostly Maze	TAI
Pattern Guess	TAI
Bright Idea	TAI
Cross Over	TAI
Snake Trails	TAI
Shark Bait	TAI
Grave Digger	TAI
Missile Safe	TAI
Three Hundred	TAI
Shoot	TAI
Hunter	TAI
Fighter	TAI
Piano Songs	TAI
Save Me	TAI
Cavern Chaos 2	TAI
Enervac	TAI
Circuitry	TAI
Fuse	TAI
Mower Mania	TAI
Flag Climber	TAI
Astro Save	TAI
Star Treker	APE
The Lost Crown	APE
Teacher Zapper	SOR

```
2150 PRINT@89,VSR
2160 RETURN
2170 PRINT@195,"!!!! OOPS, I FUMBLED !!!!":SOUND30,1:DN=1:YDS=10
2180 IFQTR=10RQTR=3,C$=Y$ELSEC$=M$
2190 RETURN
2200 PRINT@200,"!!!! SAFETY !!!!":DN=1:YDS=10
2210 IFQTR=10RQTR=3,NPS=25:OPS=25:C$=Y$ELSENPS=55:OPS=55:C$=M$
2220 VSR=VSR+2
2230 PRINT@89,VSR
2240 RETURN
2250 PRINT@198,"!!!! TOUCHDOWN !!!!":DN=1:YDS=10
2260 IFQTR=10RQTR=3,NPS=25:OPS=25:C$=Y$ELSENPS=55:OPS=55:C$=M$
2270 HSR=HSR+7
2280 PRINT@78,HSR
2290 RETURN
2300 FORAA=31TO55STEP-1:SOUNDAA,1:NEXT
2310 PRINT@197,"!!!! GOOD PUNT !!!!":DN=1:YDS=10
2320 IFQTR=10RQTR=3,NPS=OPS+20:C$=M$ELSENPS=OPS-20:C$=Y$
2330 IF(QTR=10RQTR=3)ANDNPS>64,NPS=55
2340 IF(QTR=20RQTR=4)ANDNPS<16,NPS=25
2350 OPS=NPS
2360 RETURN
2370 FORAA=31TO55STEP-1:SOUNDAA,1:NEXT
2380 PRINT@197,"!!!! GOOD PUNT !!!!":DN=1:YDS=10
2390 IFQTR=10RQTR=3,NPS=OPS-20:C$=Y$ELSENPS=OPS+20:C$=M$
2400 IF(QTR=10RQTR=3)ANDNPS<16,NPS=25
2410 IF(QTR=20RQTR=4)ANDNPS>64,NPS=55
2420 OPS=NPS
2430 RETURN
2440 IFQTR=20RQTR=4,2520
2450 Z=0:IFNPS<25ANDRW9,PRINT@193,OW$:DN=1:YDS=10:VSR=VSR+3:Z=1
2455 IFZ=1,C$=M$:GOTO2590
2460 Z=0:IFNPS>30ANDRW7,PRINT@193,OW$:DN=1:YDS=10:VSR=VSR+3:Z=1
2465 IFZ=1,C$=M$:GOTO2590
2470 Z=0:IFNPS>35ANDRW5,PRINT@193,OW$:DN=1:YDS=10:VSR=VSR+3:Z=1
2475 IFZ=1,C$=M$:GOTO2590
2480 Z=0:IFNPS>38ANDRW4,PRINT@193,OW$:DN=1:YDS=10:VSR=VSR+3:Z=1
2485 IFZ=1,C$=M$:GOTO2590
2490 PRINT@193,W0$
2500 IFNPS>55,NPS=55:OPS=55
2510 GOTO2610
2520 Z=0:IFNPS<25ANDRW9,PRINT@193,OW$:DN=1:YDS=10:VSR=VSR+3:Z=1
2525 IFZ=1,C$=Y$:GOTO2590
2530 Z=0:IFNPS<30ANDRW7,PRINT@193,OW$:DN=1:YDS=10:VSR=VSR+3:Z=1
2535 IFZ=1,C$=Y$:GOTO2590
2540 Z=0:IFNPS<35ANDRW5,PRINT@193,OW$:DN=1:YDS=10:VSR=VSR+3:Z=1
2545 IFZ=1,C$=Y$:GOTO2590
2550 Z=0:IFNPS<38ANDRW4,PRINT@193,OW$:DN=1:YDS=10:VSR=VSR+3:Z=1
2555 IFZ=1,C$=Y$:GOTO2590
2560 PRINT@193,W0$
2570 IFNPS<25,NPS=25:OPS=25
2580 GOTO2610
2590 GOSUB3190:PRINT@89,VSR
2600 IFQTR=10RQTR=3,NPS=55:OPS=55ELSENPS=25:OPS=25
2610 RETURN
2620 IFQTR=20RQTR=4,2690
2630 Z=0:IFNPS<25ANDRW9,PRINT@193,OW$:DN=1:YDS=10:HSR=HSR+3:Z=1
2635 IFZ=1,C$=Y$:GOTO2750
2640 Z=0:IFNPS<30ANDRW7,PRINT@193,OW$:DN=1:YDS=10:HSR=HSR+3:Z=1
2645 IFZ=1,C$=Y$:GOTO2750
2650 Z=0:IFNPS<35ANDRW5,PRINT@193,OW$:DN=1:YDS=10:HSR=HSR+3:Z=1
2655 IFZ=1,C$=Y$:GOTO2750

2660 PRINT@193,W0$
2670 IFNPS<25,NPS=25:OPS=25
2680 GOTO2770
2690 Z=0:IFNPS>55ANDRW<9,PRINT@193,OW$:DN=1:YRD=10:HSR=HSR+3:Z=1
2695 IFZ=1,C$=M$:GOTO2750
2700 Z=0:IFNPS>50ANDRW<7,PRINT@193,OW$:DN=1:YRD=10:HSR=HSR+3:Z=1
2705 IFZ=1,C$=M$:GOTO2750
2710 Z=0:IFNPS>45ANDRW<5,PRINT@193,OW$:DN=1:YRD=10:HSR=HSR+3:Z=1
2715 IFZ=1,C$=M$:GOTO2750
2720 PRINT@193,W0$
2730 IFNPS>55,NPS=55:OPS=55
2740 GOTO2770
2750 PRINT@78,HSR
2760 IFQTR=10RQTR=3,NPS=25:OPS=25ELSENPS=55:OPS=55
2770 RETURN
2780 YLN=(NPS-15)*2
2790 IFYLN>50,YLN=100-YLN
2800 RETURN
2810 IFPOSI=10RPOSI=2,PRINT@198,"NO GAIN ON THE PLAY":RETURN
2815 PRINT@200,"INCOMPLETE PASS"
2820 RETURN
2830 IFPOSI=10RPOSI=2,PRINT@197,"GAIN OF"YRD(RW,POSI):RETURN
2835 IFPOSI=10RPOSI=2,PRINT"ON THE PLAY":RETURN
2837 PRINT@194,"PASS COMPLETED FOR"YRD(RW,POSI)"YARDS"
2840 RETURN
2850 IFPOSI=10RPOSI=2,PRINT@197,"LOSS OF"ABS(YRD(RW,POSI)):RETURN
2855 IFPOSI=10RPOSI=2,PRINT"ON THE PLAY":RETURN
2857 PRINT@193,"QUARTERBACK SACKED:LOSS OF"ABS(YRD(RW,POSI))
2860 RETURN
2870 QTR=QTR+1:PLS=1:GOSUB65000:GOSUB64000
2875 PRINT@33,"END OF HALF":GOSUB3190:QTR=QTR+1:PRINT@83,QTR
2880 IFHOLD$="K",KR$="R"ELSEKR$="K"
2890 GOSUB64000:IFPOS$="H",PRINT@33,"IT'S YOUR"ELSEPRINT@33,"IT'S MY"
2895 PRINT@65,"BALL ON THE":PRINT@97,YLN:PRINT@101,"YRD LINE"
2897 RETURN
2900 PLS=0:GOSUB65000:GOSUB64000:PRINT@33,"END OF"
2905 PRINT@65,"QUARTER":GOSUB3340:NPS=80-OPS:OPS=NPS:QTR=QTR+1
2907 GOSUB64000:IFPOS$="H",PRINT@33,"IT'S YOUR"ELSEPRINT@33,"IT'S MY"
2909 PRINT@65,"BALL ON THE":PRINT@97,YLN:PRINT@101,"YRD LINE"
2910 PRINT@83,QTR:RETURN
2920 CLS:GOSUB370
2930 PRINT@33,"TIME IS UP: THE GAME IS OVER"
2940 IFHSR>VSR,PRINT@161,"YOU LOST BY A SCORE"
2942 PRINT@193,"OF"HSR"TO"VSR
2945 IFHSR>VSR,PRINT@257,"BETTER LUCK NEXT TIME"
2950 IFVSR>HSR,PRINT@161,"YOU WON BY A SCORE"
2952 PRINT@193,"OF"VSR"TO"HSR
2955 IFVSR>HSR,PRINT@257,"CONGRATULATIONS !!!!"
2960 PRINT@385,"WOULD YOU LIKE TO PLAY AGAIN?"
2965 PRINT@417,"(Y/N)"
2970 IFINKEY$<>"",2970
2980 ANS$=INKEY$:IFANS$="",2980
2990 IFANS$="Y",RESTORE:GOTO340
3000 IFANS$<>"N",2980
3010 CLS:END
3020 DATA 0,2,14,10,0,2,98,0,8,40,-8,4,-8,4,99,-2,-4,0,99,0,6,10
3022 DATA 0,6,50,00,6,12,0,0,4,-2,-8,18,0,16,-2,0,99,14,30,6
3024 DATA 0,2,0,4,2,0
3030 DATA 0,2,14,10,0,2,98,6,8,40,8,4,99,-2,-4,0,99,0,6,10
3032 DATA 0,6,50,00,6,12,0,0,4,-2,-8,18,0,16,-2,0,99,14,30,6
3034 DATA 0,0,2,0,4,2,0
3130 SOUND16,3:18,2:20,3:20,1:20,2:21,5:20,2:18,3
3140 SOUND18,1:18,2:16,2:18,2:20,3:16,2:16,3:18,2:20,3:18,1:20,2
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VZ

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3150 SOUND18,1,20,3,21,3,23,3,25,5,24,5,4,23,3,21,2,20,3,18,2,16,5
3180 RETURN
3190 SOUND19,1,19,1,19,2,19,1,19,2,19,1,24,2,26,2
3200 SOUND28,2,24,1,28,1,31,5,29,1,26,1,24,2,28,2,24,5
3310 RETURN
3320 RETURN
3330 RETURN
3340 SOUND11,1,11,1,11,1,11,1,12,1,12,1,11,1
3350 FORI=1TO2:SOUND11,1,11,1,17,1,12,1,23,1,21,1
3360 SOUND 19,1,19,1,16,4,0,1:NEXT:SOUND23,1,23,1,21,1
3370 FORI=1TO2:SOUND19,4,18,1,23,1,21,1:NEXT:SOUND19,4,16,4,23,6
3410 RETURN
3420 SOUND5,1
3440 RETURN
3450 PRINT@130,"▮▮▮▮▮▮":PRINT@164,"▮▮▮▮▮▮▮":SOUND30,1
3460 TM=1:RETURN
64000 IFTM=1,P=97:TM=0ELSEP=161
64010 FORI=33TOPSTEP32:PRINT@I," ";NEXT:RETURN
65000 PRINT@193," ";RETURN
```

*** THANKS. ***

I thank the OOPs and others who do write and ring me. I always enjoy hearing from you one way or the other. The letters I usualy read three or four times. Please enclose a S.A.S.Envelope if you require an answer. Please do NOT 'phone on Sundays. If you 'phone and hear our 'phone answering unit, please leave a short message including name and 'phone number.

Don't forget your STD. area code, as I am not a mind reader, if

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DISC PROGRAMMING.

Mr.H Huggins of 12 Thomas St., MITCHAM. VIC. 3132. sent this portion of his Data Base programme in which should be very helpful to Disc System users.

```
1100 REM CHANGE FILENAME
1110 CLS:PRINT"ENTER FILENAME (7 LETTERS EXACTLY":INPUTF$
1112 IFLEN(F$)<>7THEN1110
1114 PRINT"CHANGING FILENAME":PRINT:PRINTTAB(10)"W-A-I-T"
1116 FORA=-30700TO-29400
1118 IFPEEK(A)=94ANDPEEK(A-1)=34THEN1122
1120 NEXT:GOTO70
1122 FORB=1TO7:POKEA+B,ASC(MID$(F$,B,1)):NEXT:GOTO1120
1150 F$="^D.3-324":RETURN
1160 CLS:PRINT:PRINT:PRINT"SAVING"
1165 INPUT"PREPARE DISK<<HIT RETURN>>";Q
1170 DIR:INPUT"TO RETURN TO MENU TYPE<<M>>";Q$:IFQ$="M"THEN70
1175 CLS:PRINT"P="P
1180 PRINT:PRINT: PRINT"S-A-V-I-N-G"
1185 OPEN"^D.3-324",1:GOSUB1230:FORI=CTOD
1190 PR#"^D.3-324",P$(I):NEXT:CLOSE"^D.3-324":GOTO70
1200 REM LOADING
1201 CLS:PRINT:PRINT:PRINT"LOADING"
1205 INPUT"PREPARE DISK<<HIT RETURN>>";Q
1207 DIR:PRINT"P=";P
1210 INPUT"TO RETURN TO MENU TYPE<<M>>";Q$:IFQ$="M"THEN70
1215 CLS:PRINT:PRINT: PRINT"L-O-A-D-I-N-G"
1220 OPEN"^D.3-324",0:GOSUB1230:FORI=CTOD
1225 IN#"^D.3-324",P$(I):NEXT:CLOSE"^D.3-324":GOTO70
1230 INPUT"FROM/TO";C,D:RETURN
1250 PRINT"DELETE FILE ";F$;" Y/N":INPUTK$:IFK$="Y"THEN1265
1260 GOTO70
1265 INPUT"ARE YOU SURE ???  Y/N.";L$:IFL$="Y"THEN1280ELSE70
1270 GOTO70
1280 ERA"^D.3-324":GOTO70
```

```
SOME CONSTANTS ETC.USED

GOTO70 IS RETURN TO MENU
-P- IS TOP OF FILE.--I=1TOP
P$(I) IS THE INPUT OF TEXT
FILENAME WILL BE A MARKER FOLLOWED BY 7 CHARS.
I HAVE USED-^D.3-324.
^=MARKER.D IS FILE TYPE.-.3 IS NUMBER
324 IS NUMBER OF ENTRIES.EQUAL TO -P-.
LINE 1116 WILL BE DIFFERENT FOR EACH DATAFILE
TO FIND WHERE IT STARTS AND FINISHES
USE THIS PROGRAM-----
5 FOR A=-32765TO-22500
10 IFPEEK(A)=94 AND PEEK(A-1)=34THEN20
15 NEXT
20 PRINTA;PEEK(A);PEEK(A-1):END
IF IT STOPS AT -22500 THEN USE -22500TO-10000
THE ABOVE ROUTINE USES 1300 SO ADD THAT TO THE START
ALLOWING AN OVERLAP AT BOTH ENDS
CHANGE A PROGRAM NAME AND LIST TO SEE THAT
ALL HAVE BEEN CHANGED.ADJUST ACCORDINGLY
```

What is the best thing to take into the desert? A thirst-aid kit.

VZ

VZ ROM PRINTER ROUTINES
BY LARRY TAYLOR

This is an assembly language printout of a section of the VZ ROM (Read Only Memory), which handles output to the printer. Each time a character is LPRInted, it is sent via this routine.

The comments alongside should help to explain what each section does. The driver routine at 05BD HEX first checks to see if the value is one that can be printed. If it is, a jump is made to 3AB6 HEX, where a second check is made to see if it is an inverse or a graphics character. If it is neither, the character will be printed, otherwise a jump is made to 3ADB HEX. At this point the value is tested to see if it is a graphics block. If it is not, an inverse character will be printed, otherwise a final jump is made to 2C73 HEX where the appropriate graphics character is printed.

PRINTER DRIVER

```
VZ-200 Z-80 DISASSEMBLER V 1.0

058D:79        LD    A,C              y     LOAD CHARACTER TO PRINT
058E:B7        OR    A                ?     RESET FLAGS
058F:2833      JR    Z,33  (05C4)     (3    IF ZERO GET PRINTER STATUS AND RETURN
0591:FE0B      CP    0B               (?    CHECK FOR TOP OF FORM CODE
0593:280A      JR    Z,0A  (059F)     ??    IF YES GO DO LINE FEEDS TO TOP OF PAGE
0595:FE0C      CP    0C               ??    CHECK FOR CONDITIONAL TOP OF FORM CODE
0597:2014      JR    NZ,14 (05AD)     ?     JUMP IF DATA CHAR
0599:AF        XOR   A                ?     CLEAR A
059A:DDB603    OR    (IX+03)          ???   GET NUMBER OF LINES PER PAGE
059D:280E      JR    Z,0E  (05AD)     (?    IF ZERO, DON'T SKIP ANY LINES
059F:DD7E03    LD    A,(IX+03)        ??    GET COUNT OF LINES PER PAGE
05A2:DD9604    SUB   (IX+04)          ???   AND SUBTRACT LINES PRINTED SO FAR
05A5:47        LD    B,A              G     NUMBER OF LINES TO SKIP
05A6:CDE23A    CALL  3AE2             ??:   DO A LINE FEED
05A9:10FB      DJNZ  FB               ?     LOOP UNTIL AT TOP OF PAGE
05AB:1812      JR    12               ?     RESET LINE COUNT AND RETURN TO CALLER
05AD:CDB63A    CALL  3AB6             ??:   GO PRINT CHARACTER
05B0:79        LD    A,C              y     RESTORE PRINT CHARACTER TO A
05B1:FE0D      CP    0D               ?     CHECK FOR CARRIAGE RETURN
05B3:C0        RET   NZ               ?     RETURN TO CALLER IF DATA CHAR
05B4:DD3404    INC   (IX+04)          ?4?   INCREMENT LINE COUNT
05B7:DD7E04    LD    A,(IX+04)        ?     GET LINE COUNT SO FAR
05BA:DDBE03    CP    (IX+03)          ??    COMPARE TO NUMBER OF LINES PER PAGE
05BD:79        LD    A,C              y     RESTORE PRINT CHARACTER TO A
05BE:C0        RET   NZ               ?     RETURN TO CALLER IF PAGE NOT FULL
05BF:DD360400  LD    (IX+04),00       ?6??  PAGE FULL, RESET LINE COUNT TO ZERO
05C3:C9        RET                    ?     RETURN TO CALLER

05C4:DB00      IN    A,(00)           ??    GET PRINTER
05C6:E601      AND   01               ??    STATUS
05C8:C9        RET                    ?     RETURN TO CALLER

DONE
INSTRUCTIONS: 30
BYTES:        60
```

PRINTER OUTPUT

```
VZ-200 Z-80 DISASSEMBLER V 1.0

3AB6:B7        OR    A                ?     IF CHAR = OR >128
3AB7:FAD83A    JP    M,3AD8           ??:   THEN CHECK FOR INVERSE CHAR
3ABA:F5        PUSH  AF               ?     SAVE CHARACTER TO PRINT
3ABB:CDE83A    CALL  3AE8             ??:   CHECK IF BREAK KEY PRESSED
3ABE:D2C43A    JP    NC,3AC4          ??:   IF NOT THEN PRINT CHARACTER
3AC1:F1        POP   AF               ?     RESTORE CHARACTER TO PRINT
3AC2:37        SCF                    ?     SET CARRY FLAG
3AC3:C9        RET                    ?     RETURN TO CALLER

3AC4:DB00      IN    A,(00)           ??    CHECK PRINTER
3AC6:CB47      BIT   0,A              ?G    STATUS
3AC8:20F1      JR    NZ,F1 (3ABB)     ?     IF NOT ON LINE GO CHECK BREAK KEY
3ACA:F1        POP   AF               ?     RESTORE CHAR TO PRINT
3ACB:D30E      OUT   (0E),A           ??    SEND OUT PORT 14
3ACD:D30D      OUT   (0D),A           ??    SEND OUT PORT 13
3ACF:FE0D      CP    0D               ??    CHECK FOR CARRIAGE RETURN
3AD1:37        SCF                    ?
3AD2:3F        CCF                    ?
3AD3:C0        RET   NZ               ?     RETURN TO CALLER IF NOT
3AD4:3E0A      LD    A,0A             >?    LOAD LINE FEED CODE
3AD6:18E2      JR    E2    (3ABA)     ??    GO AND DO LINE FEED
3AD8:CB77      BIT   6,A              ?w    CHECK IF CHAR IS INVERSE
3ADA:CA732C    JP    Z,2C73           ?s,   IF NOT THEN GO GRAPHICS CHAR ROUTINE
3ADD:E63F      AND   3F               ??    REDUCE VALUE TO RANGE 0-63
3ADF:C35639    JP    3956             ?V9   GO TO INVERSE CHARACTER ROUTINE
3AE2:B7        OR    A                >?    DO A
3AE4:CDBA3A    CALL  3ABA             ??:   CARRIAGE RETURN
3AE7:C9        RET                    ?     RETURN TO CALLER

3AE8:B7        OR    A                ?     RESET CARRY FLAG
3AE9:3AFD68    LD    A,(68FD)         :?h   CHECK IF THE
3AEC:CB57      BIT   2,A              ?w    CONTROL KEY PRESSED
3AEE:C0        RET   NZ               ?     IF NOT RETURN TO CALLER
3AEF:3ADF68    LD    A,(68DF)         :?h   CHECK FOR KEY PRESS
3AF2:37        SCF                    ?     SET CARRY FLAG
3AF3:CB57      BIT   2,A              ?w    WAS "_" KEY PRESSED
3AF5:C8        RET   Z                ?     IF YES RETURN TO CALLER WITH CARRY SET
3AF6:3F        CCF                    ?     IF NOT CLEAR CARRY FLAG
3AF7:C9        RET                    ?     RETURN TO CALLER

DONE
INSTRUCTIONS: 37
BYTES:        66
```
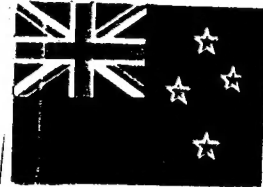
PRINTS INVERSE CHARACTERS 4

VZ-200 Z-80 DISASSEMBLER V 1.0

```
3956:F5      PUSH AF        ?  SAVE
3957:C5      PUSH BC        ?  ALL
3958:D5      PUSH DE        ?  THE
3959:E5      PUSH HL        ?  REGISTERS
395A:6F      LD   L,A       0  LOAD VALUE 0-63 INTO L
395B:2600    LD   H,00      &? ZERO H REGISTER
395D:3E08    LD   A,08      >? PUT PRINTER INTO
395F:CDBA3A  CALL 3ABA      ?? GRAPHICS MODE
3962:0604    LD   B,04      ?  TRANSFER HL VALUE
3964:E5      PUSH HL        ?  INTO DE
3965:D1      POP  DE        ?  RESET CARRY FLAG
3966:B7      OR   A         ?  ADD 4 TIMES THE VALUE OF HL
3967:ED5A    ADC  HL,DE     ?Z TO HL TO CALCULATE OFFSET
3969:10FC    DJNZ FC (3967) ??
396B:E5      PUSH HL        ?  TRANSFER OFFSET VALUE
396C:C1      POP  BC        ?  FROM HL TO BC
396D:21943B  LD   HL,3B94   1?; LOAD START ADDRESS INVERSE CHAR TABLE
3970:09      ADD  HL,BC     ?  ADD OFFSET TO LOCATE CHAR DATA
3971:3EFF    LD   A,FF      >? PRINT A
3973:CDBA3A  CALL 3ABA      ?? VERTICAL LINE
3976:0605    LD   B,05      ?? FIVE VALUES TO BE PRINTED
3978:7E      LD   A,(HL)    ?  LOAD VALUE FROM TABLE
3979:23      INC  HL        *  MOVE TO NEXT VALUE IN TABLE
397A:CDBA3A  CALL 3ABA      ?? PRINT IT
397D:10F9    DJNZ F9 (3978) ?? REPEAT UNTIL ALL 5 ARE PRINTED
397F:3EFF    LD   A,FF      >? PRINT A
3981:CDBA3A  CALL 3ABA      ?? VERTICAL LINE
3984:3EOF    LD   A,0F      >? PUT PRINTER BACK
3986:CDBA3A  CALL 3ABA      ?? IN TEXT MODE
3989:E1      POP  HL        ?  RESTORE
398A:D1      POP  DE        ?  ALL
398B:C1      POP  BC        ?  THE
398C:F1      POP  AF        ?  REGISTERS
398D:C9      RET            ?  RETURN TO CALLER
```

D O N E

INSTRUCTIONS: 34
BYTES: 56

PRINTS GRAPHICS CHARACTERS 3

VZ-200 Z-80 DISASSEMBLER V 1.0

```
2C73:C5      PUSH BC        ?  SAVE BC
2C74:47      LD   B,A       G  SAVE CHARACTER TO BE PRINTED
2C75:3E08    LD   A,08      >? PUT PRINTER INTO
2C77:CDBA3A  CALL 3ABA      ?? GRAPHICS MODE
2C7A:78      LD   A,B       x  RELOAD CHAR VALUE
2C7B:E60F    AND  OF        ?? REDUCE VALUE TO RANGE 0-15
2C7D:E5      PUSH HL        ?  SAVE HL
2C7E:CB27    SLA  A         ?  MULTIPLY VALUE BY 2 TO GIVE OFFSET
2C80:4F      LD   C,A       0  LOAD VALUE INTO C
2C81:AF      XOR  A         ?  ZERO A REGISTER
2C82:47      LD   B,A       G  LOAD VALUE INTO B
2C83:21AFO2  LD   HL,02AF   I?? LOAD START ADDRESS GRAPHIC CHAR TABLE
2C86:09      ADD  HL,BC     ?  ADD OFFSET TO LOCATE CHAR DATA
2C87:7E      LD   A,(HL)    ~  LOAD DATA INTO A REGISTER
2C88:47      LD   B,A       G  TRANSFER TO B
2C89:23      INC  HL        *  ADVANCE TO NEXT BYTE
2C8A:7E      LD   A,(HL)    ~  LOAD DATA INTO A
2C8B:4F      LD   C,A       0  TRANSFER TO C
2C8C:78      LD   A,B       x  LOAD FIRST BYTE BACK INTO A
2C8D:CDBA3A  CALL 3ABA      ?? PRINT IT
2C90:CDBA3A  CALL 3ABA      ?? THREE
2C93:CDBA3A  CALL 3ABA      ?? TIMES
2C96:79      LD   A,C       Y  LOAD SECOND BYTE BACK INTO A
2C97:CDBA3A  CALL 3ABA      ?? PRINT IT
2C9A:CDBA3A  CALL 3ABA      ?? THREE
2C9D:CDBA3A  CALL 3ABA      ?? TIMES
2CA0:E1      POP  HL        ?  RESTORE HL
2CA1:C1      POP  BC        ?  RESTORE BC
2CA2:3EOF    LD   A,0F      >? KETURN PRINTER
2CA4:CDBA3A  CALL 3ABA      ?? TO TEXT MODE
2CA7:C9      RET            ?  RETURN TO CALLER
```

D O N E

INSTRUCTIONS: 31
BYTES: 53

HELP.

Mr.Peter Schaper, PO. Box 608, REDCLIFFE. QLD. 4020, has a Brother HP 600 Word proc unit connected via the DSE. RS232 interface to a VZ300. It works in a fashion. Can someone help him.

Mr.V Patel of P.O. Box 239, MATAMATA NEW ZEALAND is looking for a PASCAL Interpreter/Compiler. Can anyone help?

Mr.Stan Hodgson of 81 Haunted Hills Road, NEWBOROUGH VIC 3825, phone (051)273 751 requires any information on a Super EN-P1090 printer.

What happens if pigs fly?
Bacon goes up.

** OTHER CLUBS **

VZ-Down Under, Mr. George Seegie, C/O Unit 3/90 Grey St., St.KILDA VIC 3182. Australia.
They print a newsletter.

VZ USER. Mr.Mark Harwood, P.O. Box 154, DURAL NSW 2158. Australia.
They charge a yearly subscription and print a monthly newsletter.

AD LIB Vee Zed MICRO CLUB. Mr.Gordon Browell, 13 Brooks St., BIGGENDEN, QLD 4621. Australia.
A newsletter and other information is printed.

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FEBRUARY 1987.

        All prices are correct at time of printing, but may change without
notice. All articles available while stocks last. All prices in A$.
        All tape software includes postage up to four tapes.
        When ordering software, always state := which computer VZ200 or VZ300, if
you have an expansion RAM unit , and if you have a disc drive system connected
or denote as below.

        VZ1 = unexpanded VZ200.   VZ2 = unexpanded VZ300.
        VZ3 = expanded VZ200.   VZ4 = expanded VZ300

    IE. TB15 = Tape only unit of B15.   DB5 = Disc only unit of B5.
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credit union, private cheques, or Aust Post money orders.

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* * * NEW SOFTWARE. * * *

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T/DU49 VZ-EPSON P/PATCH. $ 15.00.   VZ1-VZ4.
    Larry Taylor's new M/L unit. It allows Epson or Epson compatible printers to
LPRINT or LLIST all of the VZ's inverse and graphic characters. These same
characters can also be dumped to the printer from the LO-RES screen in the COPY
mode.In MODE(1), use of the COPY command will also dump the HI-RES screen to the
printer.
    COPY,n, allows a range of 4 to 8 to be selected to allow for varying line
feeds for different printers. The utility adjusts for any size VZ memory. It
also prints the Extended Basic commands that are used if a programme is written
using the Extended Basic utility. Very handy! It can even be used with the
Extended Basic utility loaded. A second command, LTAB(n), allows a left margin
from 0 to 15 to be selected. This is for <LLISTing> a BASIC programme.

    DU22   Disk Copy. $ 10.00.   VZ1-VZ4.
    Another M/L utility which is similar to DCOPY with the added facility of
VERIFY. This is done as it runs and shows the sector numbers.

    D/TG44 MONOPOLY V2.00 $17.00.   VZ3.
    This new version from Scott LeBrun replaces his two other units, D/TG3 and
D/TG39. You have the option to play the VZ and/or up to eight players.

    D/TG45 MONOPOLY V2.0 $19.50.   VZ4.
    This new version from Scott LeBrun replaces his two other units, D/TG3 and
D/TG39. This is identical to D/TG44 except that it includes a high resolution
display of the Monopoly board. You have the option to play the VZ and/or up to
eight players.
    Scott will replace Tape versions of TG3 and TG39 with T/G44 for people who
have purchased those, but please include money for postage.
    Mr.S Le Brun, 5 Cameron Court, WANTIRNA. VIC. 3152.

    D/TG50.ESCAPE RIVER. $15.00.   VZ3-VZ4.
    A game by Larry Taylor for two to six players. Players must work together to
build a raft before a big flood arrives. The top four text lines are in Low Res.
while the rest of the VDU. is in High Res. depicting the river, trees, people
and so on.

+ + EXISTING SOFTWARE. + +

Code	Title	Price	Versions
D/TU2	EDITOR/ASSEMBLER	$ 20.00.	VZ3-VZ4
D/TB1	CASH BOOK LEDGER	$ 20.00.	VZ3-VZ4.
TU4	COLOUR GRAPHICS	$ 10.00.	VZ3-VZ4.
D/TE1	KEYBOARD	$ 8.00.	VZ1-VZ4.
D/TE2	WORDMATCHING	Deleted.	
D/TE3	MEATPIES	$ 10.00.	VZ3-VZ4.
D/TU3	UTILITYS	$ 15.00.	VZ2-VZ4.
TU5	WEAVING DRAFTS	$ 10.00.	VZ1-VZ4.
D/TE4	MATHS COUNTDOWN	$ 10.00.	VZ3-VZ4.
D/TE5	COORDINATES	$ 10.00.	VZ2-VZ4.
D/TE6	TOWER of HANOI	$ 8.00.	VZ1-VZ4.
D/TE7	MICROSCOPE	$ 8.00.	VZ3-VZ4.
D/TE8	BLOCK PUZZLER	$ 10.00.	VZ1-VZ4.
TE20	PLUS and MINUS	$ 10.00.	VZ1-VZ4.
TE24	MATHS	$ 15.00.	VZ3-VZ4.
TE25	QUEENSLAND	$ 10.00.	VZ1-VZ4.
TE27	EUROPEAN CAPITALS	$ 10.00.	VZ1-VZ4.
TE30	CAMPING	$ 10.00.	VZ1-VZ4.
D/TG2	MANSION and NOVA	Deleted.	
D/TG3	VZ MONOPOLY.	Deleted.	
TU12	SEARCHTAPE	Deleted.	
D/TG613	SCOTLAND YARD	$ 12.50.	VZ3-VZ4.
DB4	LE'VZ D'BASE	$ 98.00.	VZ3-VZ4
TB15	DATABASE-VZ	$ 25.00.	VZ3-VZ4
TG35	HAUNTED MANSION	$ 12.50.	VZ3-VZ4
TU6	VZ EXTENDED BASIC	$ 20.00.	VZ1-VZ4.
TU7	PROTECT	Deleted.	

This new version finds VZ memory size
itself.

Code	Title	Price	Versions
TU8	CMERGE/DELETE/REN	$ 12.50.	VZ3-VZ4
TU9	MONITOR DEBUGGER	$ 25.00.	VZ1-VZ4
TU10	EXTENDED BASIC	$ 12.50.	VZ3-VZ4
TU11	ARRAY/RESTORE	$ 14.95.	VZ3-VZ4

   You must have TU10 to use TU11.

Code	Title	Price	Versions
D/TU12	FILESEARCH	Deleted.	
DE1-8	EDUDISK	$ 50.00.	VZ3-VZ4
T/DE9	MEATPIES V2.	$ 15.00.	VZ3-VZ4
TU18	LOAD XX80 FILES.	$ 20.00.	VZ1-VZ4

This new version finds VZ memory size
itself.

Code	Title	Price	Versions
T/DG36	BLACKJACK.	$ 20.00.	VZ3-VZ4
T/DG37	POKER MACHINE.	$ 20.00.	VZ3-VZ4
T/DG38	WORDSQUARES.	$ 10.00.	VZ2-VZ4
T/DG39	COMPUTER MONOPOLY.	Deleted.	
T/DG40	TRIVIAL CULT.	$ 15.00.	VZ2-VZ4
T/DG41	SCOTLAND YARD 2.	$ 15.00.	VZ3-VZ4
DB5	LE'VZSTATEMENT.	$185.00.	VZ4.
DB16	CHEQUE LEDGER D.	$ 60.00.	VZ3-VZ4
D/TU19	COPY/PROTECT.	$ 30.00.	VZ1-VZ4
DU20	DISC GUARD.	$ 60.00.	VZ1-VZ4
T/DU21	VZ-EPSON PRINT/P.	Deleted.	
DU22	DISK COPY.	$ 10.00.	VZ1-VZ4.
D/TU48	FILESEARCH.	$ 10.00.	VZ1-VZ4.

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Code	Title	Price	Versions
D/TG44	MONOPOLY.	$ 17.00.	VZ3-VZ4
D/TG45	MONOPOLY.	$ 19.50.	VZ4.
D/TG50	ESCAPE RIVER.	$ 15.00.	VZ3-VZ4
D/U46	QUICKWRITE.	$ 40.00.	VZ3-VZ4
DU47	DISKOPS1.	$ 10.00.	VZ3-VZ4
DU48	DISKOPS2.	$ 10.00.	VZ4.
D/TG42	AIRTRAFFIC CONTROLLER.	$20.00.	VZ3-
D/TG43	LEARJET.	$ 20.00.	VZ3-VZ4
DU49	VZ-EPSON PRINT/PATCH.	$ 15.00.	VZ1 -VZ4.

/ / EXTENDED BASIC
JOHN D'ALTON.

EXTENDED BASIC PROGRAMMING.

VARPTR.

This time I will discuss VARPTR (VARable PoinTeR) use. As I stated before, I do not give a full description of EXTENDED BASIC commands, only enough to whet your appetite and seek a good BASIC programming book. The easiest way to impliment EXT. BASIC commands is to borrow or purchase one of our units.

The VAR of VARPTR can be a numeric or a string variable. I will only refer to a string variable here.

You may wish to change a string variable in the line in a programme from "SYDNEY" to "ALBURY". VARPTR find the address of the first character, which is "S" in "SYDNEY". The new word with it's first character being "A" is POKEd into that address.

The address is actually stored in a location called an INDEX. The index location varies according to the size of the programme.

```
100 REM VARPTR DEMO 1
110 A$="SYDNEY"
140 X=VARPTR(A$)
150 PRINT"INDEX TO A$ IS AT ";X
160 L=PEEK(X+1)+256*PEEK(X+2)
170 PRINT"A$ IS LOCATED AT ";L
300 END
```

This is a RUN of it.

```
READY
RUN
INDEX TO A$ IS AT  31603
A$ IS LOCATED AT  31493
COPY
```

So that you can see how both the address of "S" and the index address has changed by plus one, I have added a full stop after "1" on line 100.

```
100 REM VARPTR DEMO 1.
110 A$="SYDNEY"
140 X=VARPTR(A$)
150 PRINT"INDEX TO A$ IS AT ";X
160 L=PEEK(X+1)+256*PEEK(X+2)
170 PRINT"A$ IS LOCATED AT ";L
300 END
```

```
READY
RUN
INDEX TO A$ IS AT  31604
A$ IS LOCATED AT  31494
COPY
```

Now we can POKE new characters in to make A$ a new word. The ASCII values are READ from the DATA on line 280.

```
100 REM VARPTR DEMO 1.
110 A$="ALBURY"
140 X=VARPTR(A$)
150 PRINT"INDEX TO A$ IS AT ";X
160 L=PEEK(X+1)+256*PEEK(X+2)
170 PRINT"A$ IS LOCATED AT ";L
200 FORI=LTOL+5
210 PRINTA$
220 READN:POKEI,N
230 NEXTI:PRINTA$:PRINT
280 DATA65,76,66,85,82,89
300 END
```

```
READY
RUN
INDEX TO A$ IS AT  31673
A$ IS LOCATED AT  31494
SYDNEY
AYDNEY
ALDNEY
ALBNEY
ALBUEY
ALBURY
ALBURY

COPY
```

VZ

NEW SOFTWARE Continued.

D/TG42 AIR TRAFFIC CONTROLLER. $20.00.VZ3-VZ4. .
This game was previously sold by DSE. A very good Low Res. game which allows you to control the arrival and departure of various types of aircraft at a busy airport. Complete with instruction manual.

D/TG43. LEARJET. $20.00. VZ3-VZ4.
Another game previously sold by DSE. It is a more complicated Low Res. game whereby you pilot a Learjet around Australia. Also complete with instruction manual.

DB46. QUICKWRITE. $40.00.   VZ3-VZ4.
This M/L unit is a WORDPROCESSOR for disc use only, as the data is <SAVEd> automatically to disc after a number of lines have been typed. Back-up to tape is catered for. Many of the usual options are allowed. Paste, Cut, Find & Replace, Copy, Insert etc. Also various printer controls are selectable. An instruction manual is included.

DISKOPS1. $10.00. VZ3.
This utility allows M/L programmers using the DSE. Editor Assembler, to save and load their source code to and from disc. Tape must still be used to save object code.

DU48. DISFOPS2. $10.00. VZ4.
This is the same as DU47, but as these two units are NOT re-locatable, you must specify which you require, DU47 or DU48.

+   S O F T W A R E   +

The liftout VZ Computer Software Catalogue has been compiled to provide assistance to all Users in finding a commercially available program to suit their requirements. Details of any programs not listed here can be sent to the address shown on the list so updates can be affected.   Over the years some of these programs have now been taken off the market and it would be a pity to see them disappear completely , So I suggest a central Library should be set up and with the assistance of Writers this could be built up so all future Users can receive the benefit. This is similar to what is available to other Brand Computer Users.   Due to Copyright controls current programs could not be handled but Writers from the past who still hold copies of programs can still receive some benefit for their work as nominal charges for Tapes, Disks, Postage and recording could be made.   Due to lack of satisfactory SERVICE given to their Clients by some Distributors I, Along with a number of others have experienced, Any form of improvement in obtaining goods can only be for the better. Another problem has been the quality of reproduction of recordings ,As some programs I bought took a lot of juggling with different recorders before I could load them error free.   We have a low cost but reliable Computer in our hands , so let's all get behind it with our support in both software and hardware.

Eddie James

LE'VZ FORMATS.

To help me time-wise to make LE'VZ a better magazine, and yourself to get the most out of it, please read this page.

ALL PRICES are in Australian Dollars.

CURRENT ISSUE price is A$2.00 which includes surface/air postage within Australia and Air Mail to New Zealand. If you require more than one copy at one time, extra money must be sent to cover postage.

LE'VZ IS (C) COPYRIGHT.

NEW MEMBERS must start by sending $4.00 as I do not charge a yearly subscription. This makes it worth while entering your name, address and other data into our D'BASE. You then receive the current issue if it is in a certain time period between the main send LE'VZ runs. If that is close to the next issue, you will recieve that and not the "old" current issue. New Members can send more than $4.00, as long as it is in multiples of $2.00.

Present OOPs have their $ credit printed at the top of their name and address label if sent in the main run. If your credit is less than $2.00., then a little reminder slip is included with the LE'VZ sent, stating that this is your last issue. Some folk have various money amounts left over from other software or hardware purchases put into their LE'VZ credit, and so odd $ amounts do occur.

BACK ISSUES are from #8 to the current issue. The price is $3.00 each. This includes surface/air postage within Australia and Air Mail to New Zealand. If you require more than two copies at one time, extra money must be sent to cover postage.

We usually have most Back Issues in stock. We send what we have and back order the others for you if required. If they are not sent within a couple of months, or with the next Current issue, please remind us.

GENERAL LIST refers to OOPs who want their name, address and data made available to other OOPs when asked for. You may like to contact OOPs in your state, or OOPs with VZ200s. Not all OOPs want their name and information made public, so if that applies to you, you must answer N (no). IF YOU DO NOT WANT YOUR INFO MADE PUBLIC, ANSWER N (no) ON THE DATA SHEET. IF YOU DO NOT ANSWER Y (yes) OR N (no) THEN YOU WILL AUTOMATICALLY BE PUT ON THE GENERL LIST.

Remember, you may receive letters from OOPs months after you may have sold your VZ.

ANY COMMUNICATION to me that requires a written reply must be accompanied by a Self Addressed Stamped Envelope. Do not expect an immediate reply, as I may need to contact others to formulate an answer.

Always state your record number. That could be between A02 and A98, B01 and B98 or C01 and C45. I have about 240 financial and unfinancial folk to keep track of. From LE'VZ #15, your record number and $ credit are printed at the top of your name and address label.

DO NOT TELEPHONE ME ON SUNDAY!!!

CIRCUIT, ROM and PROGRAMME LISTING PRINTOUTS can be sent to you at 20C per A4 page plus postage. Do not ask for the complete VZ ROM listing as it is very long and is about 15CM in thickness.

LETTERS TO THE EDITOR are welcome either as general comments, complaints or asking for help. As with contributors, please ensure that your typewriter or printer prints clear and DARK. In the new 35 character normal size print, IE. 90MM line length, right justified or wragged. If you have to write by hand, use a RED pen and write in the format just mentioned.

ADVERTISING is a free service to OOPs who are financial, using the above 35 character format. About 100 words or less.

CONTRIBUTIONS are very welcome. Please write your letter on a separate piece of paper to your contribution, which allows separate filing of material. You can send in programme listings in M/L or BASIC. Hardware modification or equipment drawings. Hints and any useful information. As above, use the new 35 character format except if it is a large circuit, drawing or photo. If it is a full page contribution reduce by photo copying so that there is a 20MM margin all the way around.

In fact I would like to receive more hardware contributions. Also photos of your equipment would interest others. There is a little problem here though as different photo copyiers reproduce certain colours differently. We can but try.

BASIC PROGRAMME LISTINGS need special requirements.
Refer to #14 pages 2 and 3. This was sent by Scott Le Brun on paper as printed on his GP100. I then reduced it so that two pages could be printed on one page. His printer ribbon was a little light. Now refer to pages 4 and 5. Marco Ostini sent this on tape. I printed it in reduced mode while <LISTing> it. It is a slightly bigger print than Scott's and clearer. Also I ran the programme so it should be "bug" free, certainly no typing errors.

TAPE/DISC CONTRIBUTIONS are therefore the best way to send in this regard. Send in a padded post bag, and we will return it to you as soon as possible. We will pay the return postage. In this way the programme can be later issued as a PUBLIC DOMAIN programme. You must let me know if you will allow this to happen.
VPROGRAMMEZ-VHINTZ-VHARDWAREZ book. People have suggested that I print a second book. Please let me have permission in WRITING if you would like any of your contributions included in it.

Finally, I do not promise to print any or all contributions, this is at my discretion.

LE'VZ is printed every two to three months.

MINI EXPO REPORT.

This time I chose the Milton Primary School as the venue. It is about 1KM. from here. The day was the 13th. of December 1986. I set up the furniture the day before, which was school "break up day". I arrived at about 7.30 AM. on the Saturday morning. I thank Mr. Phil Maude, Mr. Larry Taylor, Mr.Bob Kitch, and Mr.Eddie Tomes who with myself set up five main VZ systems, (yes five).

Additional equipment was supplied by Mr.Bob Jones, Mr.Peter Glanville and others.

I gave my opening talk commencing at 10.00 AM. Then I demonstrated various software, including our VSOFTWAREZ LE'VZ D'BASE. This was to give a brief showing of what happens when I send LE'VZ, printing the OOP name and address labels who have credit. Larry Taylor then gave a short talk/demo of his Printer Patch. From then on there were various talks and demonstrations in both rooms simultainiously.

Bob Kitch demonstrated a Kodak 240V/battery ink jet printer, talked about his VERBATUM book of information, machine/assembly language programming and his new hardware. Bob's son Bruce, talked about programming with the DSE. Sprite Generator. Eddie Tomes showed Bob Jone's big 98 LB. 132 character column printer in operation and his own much modified VZ. He showed his printer/plotter, a Tandy CGP-115 in operation. He also spoke about his software list which is mentioned on page 8.

Larry Taylor's Speech Synthesiser was running much of the day, as was our Demonstration-Advertisment-Disc and Jamie Perry's (DSE.) demo Disc.

The Light Pen system was given a showing also. I was not able to hear all talks and demos as I was selling our software, LE'VZs and generally talking to folk. There were plenty of information sheets available free of charge. Last but not least, I supplied tea and biscuits for whoever required it, and a lucky door prize.

Although about 40 folk passed through the door, only 14 wrote their name on the list at the entrance door. The prize which was a copy of the book, Learning TRS-80 Basic for Models I, II/16 and III was drawn out by Bruce Kitch. Believe it or not he drew his father's number. Mr. Bob Kitch #10 was the winner. I am sure Bob enjoyed his extra Christmas present.

The top photo shows Eddie Tomes talking about his software list. On his right is Bob Kitch "holding his heart". The bottom photo is of Larry Taylor giving his printer talk. On his left is our VZ setup.

Again I thank all who helped make it a wonderful day.

READER REQUEST.

Mr.James Crichton, of 34 Murringo St., YOUNG. NSW. 2594, would like to know who wrote the DSE. CHESS programme for the VZ. He would like access to the M/L source code with a view to implementing it on the SEGA computer which has excellent graphics capability.

ED.

```
100 REM TO PLACE AN X ANYWHERE ON THE LOW RES SCREEN
101 REMBY GUY THOMASON
102 REM VP=VERTICAL POSITION. HP=HORIZONTAL POSITION
104 CLS
105 INPUTVP:INPUTHP
110 PRINT@32*VP+HP,"X"
200 END
```

* * NEW LE'VZ FORMATS. * *

So that more information can be printed in LE'VZ, and to assist me, on page 9 is set out the new format rules and guidelines. I have been spending a fair amount of time copying material to darken a printed (LISTing), or reducing it to fit the page. Even so there have been a few parts of these that are not very clear. To the beginner programme typist, this can be very frustrating. Of course on the other hand it is in itself a teaching tool. Never-the-less I would like the (LISTings) to be easy to read. I don't want them as small as the sub-miniture Australian Personal Computer (LISTings) either. Also, not every one posseses a magnifying glass. On the other hand it is a waste of paper to print them in normal size.

PLEASE help me!!!

●●●● * COVER COMPETITION. * *●●●●

I am holding a competition that all OOPs can enter. The prize is $10.00.

I need a new front/cover page for LE'VZ for #16 onwards.
It is for the same A4 size of paper that I currently use. Entries to be on white paper. The front page is usually coloured. In the past yellow, pink, blue, green and buff.
The name, LE'VZ 200/300 OOPs must be prominent on the top half of the page. You can use graphics, Letraset, printer etc. A light background of programme (LISTings), drawings or original photos of VZ equipment, (NOT DSE. photos) is acceptable.
Use your imagination.
I may not use any entry, so there would be no payout. I may use two separate entries combined, so there would be $5.00. paid to each entrant.
Remember, I hope to use the new cover on #16 issue around June.
THE COMPETITION CLOSES ON APRIL THE 24th. 1987, RECEIVED BY US.

COMING SOON .. SOON .. SOON.

- Disc utility to read any track.
- EPROM exchange for the DSE. RS232 Terminal which allows a printer to operate, plus extra key operations.
- More EXTENDED BASIC programming.
- More short BASIC programmes.
- Tape units of the Public Domain Disc units, DPD1 and DPD2.
- A software utility to save source code of the DSE. Editor Assembler to Disc.
- A software utility to save text data of the DSE. tape Word Processor to Disc.
- A competition.
- A Compiler in BASIC.
- Bob Kitch's video article.
   Etc etc etc....
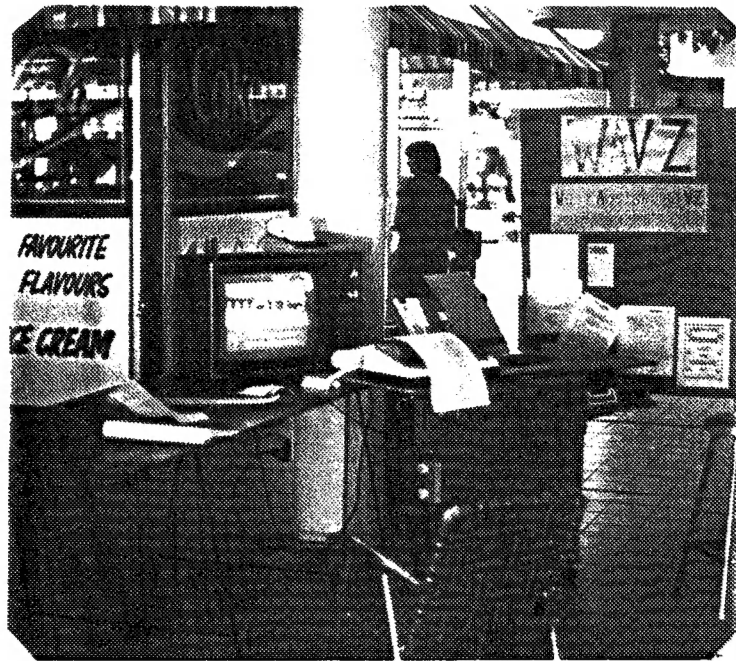
This photo was sent by Graeme Bywater of the WAVZ club in Perth. It was taken during their display in the Morley Mall.

HARDWARE AND FIRMWARE FOR SALE.

VSOFTWAREZ, 39 Agnes St., TOOWONG. QLD. 4066.
AUSTRALIA. 'phone (07) 371 3707.

Unlike our software prices, these prices do NOT include postage. Always include extra money and we will send you back any surplus money in the parcel or credit it for future LE'VZs, if you are an OOP. Prices in Australian dollars at 1st. of Feb. 1987. Items available while stocks last. NO warranty on USED items.

Item	Condition	Price
VZ data recorder	used	$ 45.00.
GP100 printer ribbons	new	$ 22.00 for two.
These are not the exact type, but a few minutes fiddle.		
VZ200 rubber membrane keys	new	$ 18.00 each.
VZ300 rubber membrane keys	new	$ 18.00 each.
C10 blank tapes	new	$ 6.50 for five.
C20 blank tapes	new	$ 7.00 for five.
Floppy discs DDSS	new	$ 22.00 per pack of ten.
VZ300 & p/pack & manual	used	$ 65.00.

BOOKS.

Item	Condition	Price
VprogrammeZ-VZ-VZ	new	$ 18.50 each [postage included]
Learning TRS-80 BASIC-I,II/16	new	$ 10.00 each.
BASIC Easier and Faster TRS80	new	$ 10.00 each.

PUBLIC DOMAIN SOFTWARE.

In the previous LE'VZ I released two Discs at
$15.00 each. The DIRectory printout of DPD1 should
not have included the last six programmes on it.
Both DIRectories are printed here.

Our Demonstration-Advertisment-Disc is also
for sale at $10.00, or ask nicely at most DSE.
stores for them to make a free copy for you. I
suggest you supply a blank disc.

Can you spell "Blind Pig"?
Sure- B L I N D P I G

No it's B L N D P G   If it had two eyes it wouldn't be
blind!

PUBLIC D DPD1.

T:MENU	01	00	7AE9	7DF2	0309
T:BARGRAPH	01	07	7AE9	7C9B	01B2
B:^PO	01	0B	7000	7801	0801
T:MINE	02	0C	7AE9	91A4	16BB
T:NAME	05	0B	7AE9	7DBF	02D6
T:^GO	06	01	7AE9	8D49	1260
T:OTHELLO	08	07	7AE9	7B0E	0025
T:WORDS	08	08	7AE9	8943	0E5A
T:GRAPH	0A	06	7AE9	8B8A	10A1
T:SKETCH	0C	08	7AE9	80B2	05C9
T:METEOR	0D	04	7AE9	7FC0	04D7
T:ANIMAL	0D	0E	7AE9	8278	078F
T:PENCIL	0E	0E	7AE9	8CC0	11D7
T:INVENTRY	11	03	7AE9	891B	0E32

336 RECORDS 42.0K BYTES FREE

PUBLIC D DPD2.

T:CIRCLE	01	00	7AE9	7B4F	0066
T:TRIANGLE	01	01	7AE9	7B63	007A
T:SPIRAL	01	02	7AE9	7B4E	0065
T:LOOPS	01	04	7AE9	7B49	0060
T:STAR	01	05	7AE9	7B4F	006A
T:KNOTS	01	06	7AE9	7B59	0070
T:FLOWER	01	07	7AE9	7B49	0040
T:GUILLOTN	01	03	7AE9	7DFB	0312
T:RACES	01	0D	7AE9	80F6	060D
T:ROADER	02	0A	7AE9	8079	0590
T:U.F.O.	03	06	7AE9	7E90	0397
T:LANDER	05	0D	7AE9	83F5	0800
T:HELICPTR	03	0D	7AE9	83B2	08C9
T:SYMMETRY	04	0F	7AE9	7C11	012A
T:BOUNCE	07	02	7AE9	7CAD	01C4
T:PIZZA	07	05	7AE9	83EE	0905
T:SUBMRINE	08	08	7AE9	86B6	0BCD
T:MORSE 1	09	0D	7AE9	83F0	0907
T:CALENDAR	0B	05	7AE9	8466	097D
T:BIRTHDAY	0C	09	7AE9	82E9	0800

422 RECORDS 52.750K BYTES FREE

INFORMATION CONTACTS.

Here are three other folk who you can contact. Always
include a SASE. if you require a written reply. Please use
good judgement if you telephone, perhaps not on Sundays.
Check with the person concerned.

Graphics, M/L, printer info, educational.
Mr.Larry Taylor, 4 Columbia Court, SPRINGWOOD. QLD.
4127. 'phone (07)208 1258.

M/L, hardware, BASIC programming and his special list of
all types of info.
Mr.Bob Kitch, 7 Eurella St., KENMORE.   QLD.   4069.
'phone (07)378 3745.

Software list.
Mr.Eddie Tomes, 3 Kilkenny St., CAPALABA. QLD. 4157.
'phone (07)390 2797.

PLEASE REMEMBER.

In any communication with us, please indicate YOUR OOPs
RECORD NUMBER, if you know it . As mentioned on page 9, it
should be printed on the top of your name and address label
of the LE'VZ sent. It assists me greatly to have this
number. Many thanks. J.D.

//// NEW BRISBANE CLUB. \\\\

Mr.Bob Jones has arranged the first meeting to form a group.
The meeting or workshop will be held at 1.00 PM. Saturday
the 7th. of March 1987 at the Capalaba State High School,
School Rd., off Mt. Cotton Rd. Queensland.

— — — — — — CUT — — — — —

***** DATA SHEET *****

Surname........................ Mr, Mrs, Miss and Christian name..................
Address.. ..Post Code ....
Telephone number. ( )....................... Onto General List Yes/No..........
Computer. VZ200 and/or VZ300..............Any other computer.....................
Printer and/or plotter.........................Disc system Yes/No.....
RAM Expansion........K. Tape recorder. VZ DTR or other.........................
RS232 terminal..... Yes/No.........Modem Yes/No.......... Brand..................
Interest. Business, games, M/L, BASIC, hardware, etc...............................
....

I   request   all   OOPs
(Oners-Operators-Programmers)   to
complete, cut out and send back to me.
As mentioned elsewhere in this LE'VZ,
this is useful for OOPs who may like to
contact other OOPs who live in their
vicinity, etc. Answer N (No) if you do
not wish your name put on this General
List. If the answer is Y (Yes) or not
answered at all, you will be put on the
General List.